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Overview

Objectives

The objectives of this lab are:

- Describe the various types of SQL functions.
- Use character, numeric and conversion functions in SQL.
- Use group functions on multiple rows.

Prerequisites

1.	Read Chapter 4 pages 90-109 and pages 117-127.
2.	Be aware of the regular expression functions on pages 109-116.
3.	Work your way through the examples on pages 92-109

- You do not have the Store schema tables installed in your schema. The Store schema tables are available in the STOREDB schema.
- To use the Store Schema tables in your textbook examples, you need to put STOREDB. (dot) in front of the table names. For example, to run the command in the middle of page 34 you would write:

SELECT price * 2 DOUBLE_PRICE FROM storedb.products;

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Note the "storedb" can be either upper or lower case.

Demo Due Date:

For all sections, the lab demo is due in 2 weeks after reading break (Feb 22 - 26) by the end of your lab session.

Scoring:

Lab is worth 15 marks. Each query is worth 1 mark.

Functions

4. As per Lab01, create a Lab04 folde	
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- 5. For the following, you will need to use the Human Resource tables you created in LabO1. These questions do not use the **STOREDB** tables used in the textbook examples, only the tables you installed from LabO1 (e.g. the **Employees** table). Don't forget to use the DESC statement to view the structure (the column names) of a table. For example, use **DESC Employees** to view the structure of the **Employees** table. The appendix contains an Entity Relationship diagram of the Human Resource tables.
- 4. The file Lab04_Questions.sql has 14 questions in it. Download this to your lab04 folder. Each query is worth 1 mark. For this lab you will be required to answer some of the questions using the ANSI SQL/86 standards and the ANSI SQL/92 standards.
- 5. After you have created the SQL query for each question, add that SQL under the question in the file.

Demo

Note: Be sure to use proper formatting in your SQL statements. The **SELECT** should be on one line, the **FROM** on another line and so on. Each clause should start a new line. You will lose marks if you do not use proper formatting with your SQL statements!

6. Demo to the instructor that your script executes successfully in SQL*Plus. (15 marks)

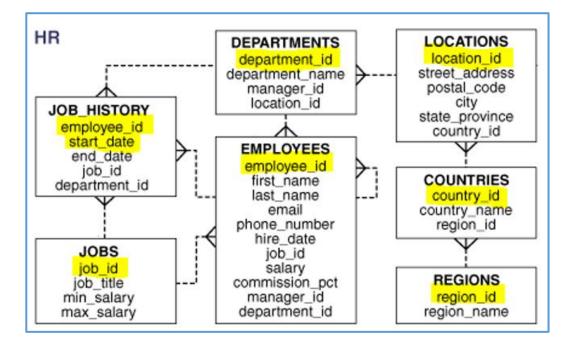
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Appendix

Human Resource Entity Relationship Diagram

- Column names high-lighted in yellow are the Primary Key.
- Represents a 1 to many relationship. For example, the location_id in the LOCATIONS table could appear many time in the location_id of the DEPARTMENTS table. Try running the following query and you can see that the same location id appears multiple times.

SELECT location_id FROM departments ORDER BY location_id;



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